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Sequence Listing was accepted.

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Reviewer: markspencer

Timestamp: Mon Oct 15 13:14:13 EDT 2007

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Application No: 10587159 Version No: 1.0

Input Set:

Output Set:

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Finished: 2007-09-25 15:47:24.723
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 408 ms
Total Warnings: 1
Total Errors: 0
No. of SeqIDs Defined: 4
Actual SeqID Count: 4

Error code	Error Description
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SEQUENCE LISTING

<110> Hopf, Carsten
Drewes, Gerard
Ruffner, Heinz

<120> Treatment of Neurodegenerative Diseases by the Use of GPR49

<130> 50125/113001

<140> 10587159

<141> 2007-09-25

<150> PCT/EP2004/013539

<151> 2004-11-29

<150> PCT/EP2004/004891

<151> 2004-05-07

<150> PCT/EP2004/004889

<151> 2004-05-07

<150> EP 04007447.8

<151> 2004-03-26

<150> EP 04001895.4

<151> 2004-01-29

<150> EP 04001894.7

<151> 2004-01-29

<160> 4

<170> PatentIn version 3.3

<210> 1

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<212> DNA

<213> Artificial sequence

<220>

<223> designed siRNA

<400> 1

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<210> 2

<211> 907

<212> PRT

<213> Homo sapiens

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1

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Gly Cys Pro Thr His Cys His Cys Glu Pro Asp Gly Arg Met Leu Leu
35 40 45

Arg Val Asp Cys Ser Asp Leu Gly Leu Ser Glu Leu Pro Ser Asn Leu
50 55 60

Ser Val Phe Thr Ser Tyr Leu Asp Leu Ser Met Asn Asn Ile Ser Gln
65 70 75 80

Leu Leu Pro Asn Pro Leu Pro Ser Leu Arg Phe Leu Glu Glu Leu Arg
85 90 95

Leu Ala Gly Asn Ala Leu Thr Tyr Ile Pro Lys Gly Ala Phe Thr Gly
100 105 110

Leu Tyr Ser Leu Lys Val Leu Met Leu Gln Asn Asn Gln Leu Arg His
115 120 125

Val Pro Thr Glu Ala Leu Gln Asn Leu Arg Ser Leu Gln Ser Leu Arg
130 135 140

Leu Asp Ala Asn His Ile Ser Tyr Val Pro Pro Ser Cys Phe Ser Gly
145 150 155 160

Leu His Ser Leu Arg His Leu Trp Leu Asp Asp Asn Ala Leu Thr Glu
165 170 175

Ile Pro Val Gln Ala Phe Arg Ser Leu Ser Ala Leu Gln Ala Met Thr
180 185 190

Leu Ala Leu Asn Lys Ile His His Ile Pro Asp Tyr Ala Phe Gly Asn
195 200 205

Leu Ser Ser Leu Val Val Leu His Leu His Asn Asn Arg Ile His Ser
210 215 220

Leu Gly Lys Lys Cys Phe Asp Gly Leu His Ser Leu Glu Thr Leu Asp
225 230 235 240

Leu Asn Tyr Asn Asn Leu Asp Glu Phe Pro Thr Ala Ile Arg Thr Leu
245 250 255

Ser Asn Leu Lys Glu Leu Gly Phe His Ser Asn Asn Ile Arg Ser Ile
260 265 270

Pro Glu Lys Ala Phe Val Gly Asn Pro Ser Leu Ile Thr Ile His Phe
275 280 285

Tyr Asp Asn Pro Ile Gln Phe Val Gly Arg Ser Ala Phe Gln His Leu
290 295 300

Pro Glu Leu Arg Thr Leu Thr Leu Asn Gly Ala Ser Gln Ile Thr Glu
305 310 315 320

Phe Pro Asp Leu Thr Gly Thr Ala Asn Leu Glu Ser Leu Thr Leu Thr
325 330 335

Gly Ala Gln Ile Ser Ser Leu Pro Gln Thr Val Cys Asn Gln Leu Pro
340 345 350

Asn Leu Gln Val Leu Asp Leu Ser Tyr Asn Leu Leu Glu Asp Leu Pro
355 360 365

Ser Phe Ser Val Cys Gln Lys Leu Gln Lys Ile Asp Leu Arg His Asn
370 375 380

Glu Ile Tyr Glu Ile Lys Val Asp Thr Phe Gln Gln Leu Leu Ser Leu
385 390 395 400

Arg Ser Leu Asn Leu Ala Trp Asn Lys Ile Ala Ile Ile His Pro Asn
405 410 415

Ala Phe Ser Thr Leu Pro Ser Leu Ile Lys Leu Asp Leu Ser Ser Asn
420 425 430

Leu Leu Ser Ser Phe Pro Ile Thr Gly Leu His Gly Leu Thr His Leu
435 440 445

Lys Leu Thr Gly Asn His Ala Leu Gln Ser Leu Ile Ser Ser Glu Asn
450 455 460

Phe Pro Glu Leu Lys Val Ile Glu Met Pro Tyr Ala Tyr Gln Cys Cys
465 470 475 480

Ala Phe Gly Val Cys Glu Asn Ala Tyr Lys Ile Ser Asn Gln Trp Asn
485 490 495

Lys Gly Asp Asn Ser Ser Met Asp Asp Leu His Lys Lys Asp Ala Gly
500 505 510

Met Phe Gln Ala Gln Asp Glu Arg Asp Leu Glu Asp Phe Leu Leu Asp
515 520 525

Phe Glu Glu Asp Leu Lys Ala Leu His Ser Val Gln Cys Ser Pro Ser
530 535 540

Pro Gly Pro Phe Lys Pro Cys Glu His Leu Leu Asp Gly Trp Leu Ile
545 550 555 560

Arg Ile Gly Val Trp Thr Ile Ala Val Leu Ala Leu Thr Cys Asn Ala
565 570 575

Leu Val Thr Ser Thr Val Phe Arg Ser Pro Leu Tyr Ile Ser Pro Ile
580 585 590

Lys Leu Leu Ile Gly Val Ile Ala Ala Val Asn Met Leu Thr Gly Val
595 600 605

Ser Ser Ala Val Leu Ala Gly Val Asp Ala Phe Thr Phe Gly Ser Phe
610 615 620

Ala Arg His Gly Ala Trp Trp Glu Asn Gly Val Gly Cys His Val Ile
625 630 635 640

Gly Phe Leu Ser Ile Phe Ala Ser Glu Ser Ser Val Phe Leu Leu Thr
645 650 655

Leu Ala Ala Leu Glu Arg Gly Phe Ser Val Lys Tyr Ser Ala Lys Phe
660 665 670

Glu Thr Lys Ala Pro Phe Ser Ser Leu Lys Val Ile Ile Leu Leu Cys
675 680 685

Ala Leu Leu Ala Leu Thr Met Ala Ala Val Pro Leu Leu Gly Gly Ser

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His Leu Ser Ser Val Ala Phe Val Pro Cys Leu
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<212> PRT
<213> Homo sapiens

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Asn Asn Leu Thr Glu Leu Gln Pro Gly Leu Phe His His Leu Arg Phe
35 40 45

Leu Glu Glu Leu Arg Leu Ser Gly Asn His Leu Ser His Ile Pro Gly
50 55 60

Gln Ala Phe Ser Gly Leu Tyr Ser Leu Lys Ile Leu Met Leu Gln Asn
65 70 75 80

Asn Gln Leu Gly Gly Ile Pro Ala Glu Ala Leu Trp Glu Leu Pro Ser
85 90 95

Leu Gln Ser Leu Asp Leu Asn Tyr Asn Lys Leu Gln Glu Phe Pro Val
100 105 110

Ala Ile Arg Thr Leu Gly Arg Leu Gln Glu Leu Gly Phe His Asn Asn
115 120 125

Asn Ile Lys Ala Ile Pro Glu Lys Ala Phe Met Gly Asn Pro Leu Leu
130 135 140

Gln Thr Ile His Phe Tyr Asp Asn Pro Ile Gln Phe Val Gly Arg Ser
145 150 155 160

Ala Phe Gln Tyr Leu Pro Lys Leu His Thr Leu Ser Leu Asn Gly Ala
165 170 175

Met Asp Ile Gln Glu Phe Pro Asp Leu Lys Gly Thr Thr Ser Leu Glu
180 185 190

Ile Leu Thr Leu Thr Arg Ala Gly Ile Arg Leu Leu Pro Ser Gly Met
195 200 205

Cys	Gln	Gln	Leu	Pro	Arg	Leu	Arg	Val	Leu	Glu	Leu	Ser	His	Asn	Gln	
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Ile	Glu	Glu	Leu	Pro	Ser	Leu	His	Arg	Cys	Gln	Lys	Leu	Glu	Glu	Ile	
225					230					235					240	
Gly	Leu	Gln	His	Asn	Arg	Ile	Trp	Glu	Ile	Gly	Ala	Asp	Thr	Phe	Ser	
				245					250					255		
Gln	Leu	Ser	Ser	Leu	Gln	Ala	Leu	Asp	Leu	Ser	Trp	Asn	Ala	Ile	Arg	
			260					265					270			
Ser	Ile	His	Pro	Glu	Ala	Phe	Ser	Thr	Leu	His	Ser	Leu	Val	Lys	Leu	
	275						280					285				
Asp	Leu	Thr	Asp	Asn	Gln	Leu	Thr	Thr	Leu	Pro	Leu	Ala	Gly	Leu	Gly	
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Gly	Leu	Met	His	Leu	Lys	Leu	Lys	Gly	Asn	Leu	Ala	Leu	Ser	Gln	Ala	
305					310					315					320	
Phe	Ser	Lys	Asp	Ser	Phe	Pro	Lys	Leu	Arg	Ile	Leu	Glu	Val	Pro	Tyr	
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Ala	Tyr	Gln	Cys	Cys	Pro	Tyr	Gly	Met	Cys	Ala	Ser	Phe	Phe	Lys	Ala	
			340					345					350			
Ser	Gly	Gln	Trp	Glu	Ala	Glu	Asp	Leu	His	Leu	Asp	Asp	Glu	Glu	Ser	
	355						360					365				
Ser	Lys	Arg	Pro	Leu	Gly	Leu	Leu	Ala	Arg	Gln	Ala	Glu	Asn	His	Tyr	
370						375					380					
Asp	Gln	Asp	Leu	Asp	Glu	Leu	Gln	Leu	Glu	Met	Glu	Asp	Ser	Lys	Pro	
385					390					395					400	
His	Pro	Ser	Val	Gln	Cys	Ser	Pro	Thr	Pro	Gly	Pro	Phe	Lys	Pro	Cys	
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Glu	Tyr	Leu	Phe	Glu	Ser	Trp	Gly	Ile	Arg	Leu	Ala	Val	Trp	Ala	Ile	
		420					425						430			
Val	Leu	Leu	Ser	Val	Leu	Cys	Asn	Gly	Leu	Val	Leu	Leu	Thr	Val	Phe	

	435						440					445				
Ala 450	Gly	Gly	Pro	Val	Pro	Leu	Pro	Pro	Val	Lys	Phe	Val	Val	Gly	Ala	
Ile 465	Ala	Gly	Ala	Asn	Thr	Leu	Thr	Gly	Ile	Ser	Cys	Gly	Leu	Leu	Ala	
Ser	Val	Asp	Ala	Leu	Thr	Phe	Gly	Gln	Phe	Ser	Glu	Tyr	Gly	Ala	Arg	
Trp	Glu	Thr	Gly	Leu	Gly	Cys	Arg	Ala	Thr	Gly	Phe	Leu	Ala	Val	Leu	
Gly	Ser	Glu	Ala	Ser	Val	Leu	Leu	Leu	Thr	Leu	Ala	Ala	Val	Gln	Cys	
Ser	Val	Ser	Val	Ser	Cys	Val	Arg	Ala	Tyr	Gly	Lys	Ser	Pro	Ser	Leu	
Gly	Ser	Val	Arg	Ala	Gly	Val	Leu	Gly	Cys	Leu	Ala	Leu	Ala	Gly	Leu	
Ala	Ala	Ala	Leu	Pro	Leu	Ala	Ser	Val	Gly	Glu	Tyr	Gly	Ala	Ser	Pro	
Leu	Cys	Leu	Pro	Tyr	Ala	Pro	Pro	Glu	Gly	Gln	Pro	Ala	Ala	Leu	Gly	
Phe	Thr	Val	Ala	Leu	Val	Met	Met	Asn	Ser	Phe	Cys	Phe	Leu	Val	Val	
Ala	Gly	Ala	Tyr	Ile	Lys	Leu	Tyr	Cys	Asp	Leu	Pro	Arg	Gly	Asp	Phe	
Glu	Ala	Val	Trp	Asp	Cys	Ala	Met	Val	Arg	His	Val	Ala	Trp	Leu	Ile	
Phe	Ala	Asp	Gly	Leu	Leu	Tyr	Cys	Pro	Val	Ala	Phe	Leu	Ser	Phe	Ala	
Ser	Met	Leu	Gly	Leu	Phe	Pro	Val	Thr	Pro	Glu	Ala	Val	Lys	Ser	Val	

Leu Leu Val Val Leu Pro Leu Pro Ala Cys Leu Asn Pro Leu Leu Tyr
675 680 685

Leu Leu Phe Asn Pro His Phe Arg Asp Asp Leu Arg Arg Leu Arg Pro
690 695 700

Arg Ala Gly Asp Ser Gly Pro Leu Ala Tyr Ala Ala Ala Gly Glu Leu
705 710 715 720

Glu Lys Ser Ser Cys Asp Ser Thr Gln Ala Leu Val Ala Phe Ser Asp
725 730 735

Val Asp Leu Ile Leu Glu Ala Ser Glu Ala Gly Arg Pro Pro Gly Leu
740 745 750

Glu Thr Tyr Gly Phe Pro Ser Val Thr Leu Ile Ser Cys Gln Gln Pro
755 760 765

Gly Ala Pro Arg Leu Glu Gly Ser His Cys Val Glu Pro Glu Gly Asn
770 775 780

His Phe Gly Asn Pro Gln Pro Ser Met Asp Gly Glu Leu Leu Leu Arg
785 790 795 800

Ala Glu Gly Ser Thr Pro Ala Gly Gly Gly Leu Ser Gly Gly Gly Gly
805 810 815

Phe Gln Pro Ser Gly Leu Ala Phe Ala Ser His Val
820 825

<210> 4
<211> 955
<212> PRT
<213> Homo sapiens

<400> 4

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Gly Ser Ala Gly Pro Ser Gly Ala Ala Pro Pro Leu Cys Ala Ala Pro
20 25 30

Cys Ser Cys Asp Gly Asp Arg Arg Val Asp Cys Ser Gly Lys Gly Leu
35 40 45

Thr Ala Val Pro Glu Gly Leu Ser Ala Phe Thr Gln Ala Leu Asp Ile
50 55 60

Ser Met Asn Asn Ile Thr Gln Leu Pro Glu Asp Ala Phe Lys Asn Phe
65 70 75 80

Pro Phe Leu Glu Glu Leu Gln Leu Ala Gly Asn Asp Leu Ser Phe Ile
85 90 95

His Pro Lys Ala Leu Ser Gly Leu Lys Glu Leu Lys Val Leu Thr Leu
100 105 110

Gln Asn Asn Gln Leu Lys Thr Val Pro Ser Glu Ala Ile Arg Gly Leu
115 120 125

Ser Ala Leu Gln Ser Leu Arg Leu Asp Ala Asn His Ile Thr Ser Val
130 135 140

Pro Glu Asp Ser Phe Glu Gly Leu Val Gln Leu Arg His Leu Trp Leu
145 150 155 160

Asp Asp Asn Ser Leu Thr Glu Val Pro Val His Pro Leu Ser Asn Leu
165 170 175

Pro Thr Leu Gln Ala Leu Thr Leu Ala Leu Asn Lys Ile Ser Ser Ile
180 185 190

Pro Asp Phe Ala Phe Thr Asn Leu Ser Ser Leu Val Val Leu His Leu
195 200 205

His Asn Asn Lys Ile Arg Ser Leu Ser Gln His Cys Phe Asp Gly Leu
210 215 220

Asp Asn Leu Glu Thr Leu Asp Leu Asn Tyr Asn Asn Leu Gly Glu Phe
225 230 235 240

Pro Gln Ala Ile Lys Ala Leu Pro Ser Leu Lys Glu Leu Gly Phe His
245 250 255

Ser Asn Ser Ile Ser Val Ile Pro Asp Gly Ala Phe Asp Gly Asn Pro

